Claims

5

15

- A process for producing a catalyst for gas-phase oxidations, in which a suspension of TiO₂ and V₂O₅ particles is applied to a fluidized inert support, wherein at least 90% by volume of the V₂O₅ particles have a diameter of 20 μm or less and at least 95% by volume of the V₂O₅ particles have a diameter of 30 μm or less.
- 2. The process according to claim 1, wherein at least 90% by volume of the V_2O_5 particles have a diameter of 15 μ m or less and at least 95% by volume of the V_2O_5 particles have a diameter of 20 μ m or less.
 - The process according to claim 1 or 2, wherein at least 50% by volume of the V_2O_5 particles have a diameter of more than 2 μm .
 - 4. The process according to any of claims 1 to 3, wherein the suspension further comprises at least one cesium, phosphorus and/or antimony source.
- 5. The process according to any of the preceding claims, wherein the catalytically active composition comprises from 1 to 40% by weight of vanadium oxide, calculated as V₂O₅, and from 60 to 99% by weight of titanium dioxide, calculated as TiO₂.
- The process according to claim 5, wherein the catalytically active composition further comprises, based on the total amount of catalytically active composition, up to 1% by weight of a cesium compound, calculated as Cs, up to 1% by weight of a phosphorus compound, calculated as P, and up to 10% by weight of antimony oxide, calculated as Sb₂O₃.

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